

CLAIMS

1. Fungicidal, bactericidal or bacteriostic plant-protection composition comprising at least one
5 inorganic salt, one oxide or one hydroxide of copper in suspension in an aqueous emulsion of at least one terpenic derivative.
2. Composition according to Claim 1, characterized in that the inorganic salt, oxide or hydroxide of
10 copper is selected from copper hydroxide, copper oxichloride, copper carbonate, copper(I) oxide and mixtures thereof.
3. Composition according to Claim 1 or Claim 2, characterized in that the inorganic salt, oxide or
15 hydroxide of copper is copper hydroxide.
4. Composition according to any one of the preceding claims, characterized in that it contains from 200 to 600 g/l, advantageously from 300 to 500 g/l of copper, in the form of an inorganic salt, oxide or
20 hydroxide of copper.
5. Composition according to any one of the preceding claims, characterized in that the diameter of the particles of inorganic salts, oxides or hydroxides of copper is not greater than 6 μm .
- 25 6. Composition according to any one of the preceding claims, characterized in that the terpenic derivative is a monoterpene or a mixture of monoterpenes.
7. Composition according to any one of the preceding claims, characterized in that the terpenic
30 derivative is selected from terpenic hydrocarbons, oxidized derivatives of terpenic hydrocarbons, terpenic alcohols, terpenic aldehydes and ketones and mixtures thereof.
- 35 8. Composition according to any one of the preceding claims, characterized in that the terpenic derivative is a mixture of terpenic hydrocarbons and terpenic alcohols.

9. Composition according to any one of the preceding claims, characterized in that the terpenic derivative is an essential oil.

10. Composition according to any one of the preceding claims, characterized in that the terpenic derivative is a pine oil.

11. Composition according to any one of the preceding claims, characterized in that the terpenic derivative is a pine oil containing 90% of terpenic alcohols.

12. Composition according to any one of the preceding claims, characterized in that it contains from 50 to 400 g/l, advantageously from 80 to 200 g/l of terpenic derivative(s).

13. Composition according to any one of the preceding claims, characterized in that it comprises at least one surfactant.

14. Composition according to any one of the preceding claims, characterized in that it comprises from 20 to 100 g/l, advantageously from 20 to 100 g/l of surfactant(s).

15. Composition according to any one of the preceding claims, characterized in that the surfactant is selected from:

- 25 - ethoxylated fatty acids,
- ethoxylated fatty alcohols,
- calcium alkylbenzenesulfonate,
- alkylnaphthalenesulfonates,
- ethoxylated alkylphenols,
- 30 - EO/PO block copolymers,
- PO/EO block copolymers,
- diisopropylnaphthalenesulfonates,
- dimethylnaphthalenesulfonates,
- di-n-butyl-naphthalenesulfonates,
- 35 - ethoxylated dodecylphenols,
- sodium dodecylbenzenesulfonate,
- phosphoric esters of alkyl polyethers (acid forms and/or salts),

- phosphoric esters of ethoxylated arylphenols (acid forms and/or salts),
- phosphoric esters of ethoxylated polyarylphenols (acid forms and/or salts),
- 5 - ethoxylated castor oil,
- isopropyl naphthalenesulfonates,
- lignosulfonates,
- methyl dinaphthalenesulfonates,
- methyl naphthalenesulfonates,
- 10 - n-butyl naphthalenesulfonates,
- ethoxylated octylphenols,
- phenyl sulfonates,
- polyalkyl naphthylmethanesulfonates,
- polyacrylates,
- 15 - ethoxylated polyarylphenols,
- polycarboxylates,
- polyvinylpyrrolidone and derivatives thereof,
- salts of sulfonated cresol-formalin condensates,
- 20 - salts of condensates of naphthalenesulfonic acid,
- salts of acrylic acid-acrylic ester copolymers,
- 25 - salts of maleic acid-olefin copolymers,
- salts of maleic anhydride-isobutylene copolymers,
- ethoxylated alkylphenol sulfates,
- ethoxylated polyarylphenol sulfates,
- 30 - sulfosuccinates,
- taurates,
- ethoxylated tristyrylphenols...

16. Method of preparing a composition as defined in any one of the preceding claims, by the following step:

- 35 - the inorganic salt, oxide or hydroxide of copper and the other ingredients of the composition are micronized until a stable homogeneous suspension is obtained in which the size of the particles is less than 6 μm .

17. Method of preparing a composition as defined in Claims 1 to 15, characterized by the following step:

- an inorganic salt, an oxide or a hydroxide of copper, whose diameter is not greater than $6 \mu\text{m}$, is mixed with the other ingredients of the composition until a stable homogeneous suspension is obtained.

18. Use of a terpenic derivative for enhancing the efficacy of an inorganic salt, an oxide or a hydroxide of copper in a plant protection, in particular fungicidal, bactericidal or bacteriostatic, composition.

19. Method of treating plants with a product based on an inorganic salt, oxide or hydroxide of copper, characterized in that an effective quantity of plant-protection mixture prepared by mixing, in aqueous form, a composition of an inorganic salt, oxide or hydroxide of copper in suspension in an aqueous emulsion containing at least one terpenic derivative is sprayed on the plant to be treated.

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